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Title: Traction chain comprising a gear change mechanism integrated in a wheel

ABSTRACT

Traction chain for an automobile vehicle, comprising a wheel support (K) which supports a rotating hub designed to receive a drive wheel (W) and which realizes a rotation axis for the said drive wheel, a rotating toothed wheel (3) having the same rotation axis as that of the said drive wheel, the toothed wheel meshing directly with the hub, an arrangement comprising at least two gear-wheels permanently engaged with the said toothed wheel, comprising an electric motor (M), and comprising a gear ratio change mechanism with a neutral position between ratios, controlled by a fork which is itself controlled by a motorized reduction unit 12. The mechanism comprises a direct mesh between the input shaft and one of the gear wheels, and comprises at least one other mechanical transmission path with a different reduction ratio from the direct mesh between the input shaft and the other gear-wheel.

Fig. 1